

Appln. No. 10/564,039
Amd. dated October 17, 2008
Reply to Office Action of May 7, 2008
and Advisory Action mailed July 22, 2008

Amendments to the Claims

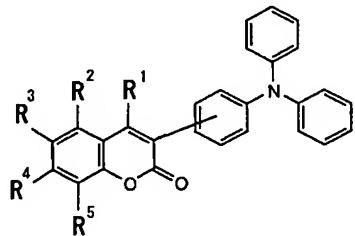
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-6. (Canceled)

7. (New) An amine compound bearing within the same molecule one or more atomic groups represented by General Formula 1, said amine compound having an absorption maximum at a wavelength of around 300 to 500 nm, a molecular absorption coefficient of 1×10^4 or larger, a fluorescence maximum at a wavelength of around 500 to 650 nm, a decomposition point exceeding 400°C, and a glass transition point of 110°C or higher, said amine compound being obtainable by reacting a compound represented by General Formula 2 with a compound bearing within the same molecule an atomic group represented by General Formula 3:

General Formula 1:



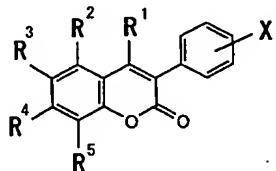
wherein in General Formula 1, (i) R¹ to R⁵ independently denote a hydrogen atom or a substituent and optionally the neighboring two of R² to R⁵ couple each other to form a cyclic structure,

including the carbon atoms to which the neighboring two substituents are linked, said substituent being a member selected from the group consisting of aliphatic hydrocarbon groups, alicyclic hydrocarbon groups, aromatic hydrocarbon groups, ether groups, ester groups, amino groups, halogen groups, hydroxy group, carboxy group, cyano group, nitro group, and combinations thereof, with the proviso that, when the neighboring two of R^2 to R^5 couple each other to form a cyclic structure, including the carbon atoms to which the neighboring two substituents are linked, said substituent being a member selected from the group consisting of aliphatic hydrocarbon groups, alicyclic hydrocarbon groups, aromatic hydrocarbon groups, ether groups, ester groups, and combinations thereof;

(ii) one, two or three coumarin residues directly or indirectly bind to a benzene ring(s) in the triphenylamino group at the para position(s) against the nitrogen atom in the tertiary amino group; and (iii) a part or whole benzene rings, which are bound to the nitrogen atom to form the tertiary amine group, are optionally either bound with one or more substituents corresponding to those in R^1 to R^5 , or allowed to share a part of condensed polycyclic aromatic hydrocarbon groups or heterocyclic groups,

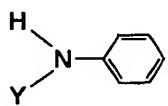
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General Formula 2:



wherein in General Formula 2, R¹ to R⁵ are substituents corresponding to those in General Formula 1, X denotes a halogen group,

General Formula 3:

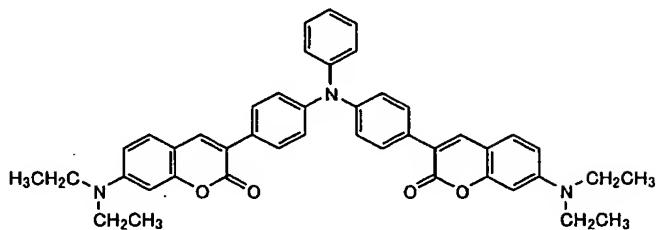


wherein in General Formula 3 Y denotes either of hydrogen atom, independent phenyl group or benzene ring which shares a part of a condensed polycyclic aromatic hydrocarbon or heterocyclic group.

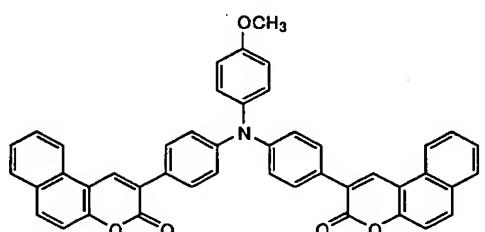
8. (New) The amine compound of claim 7, which is a member selected from the group consisting of:

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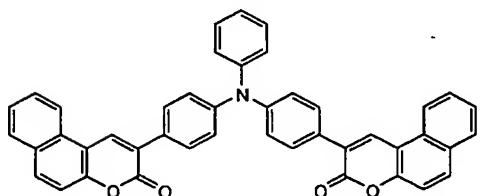
Chemical Formula 1:



Chemical Formula 2:

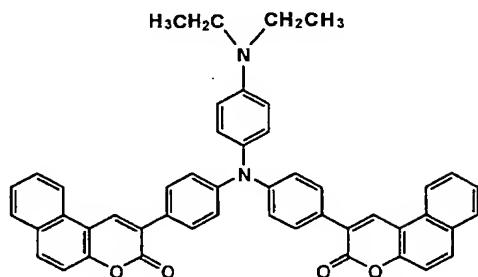


Chemical Formula 3:

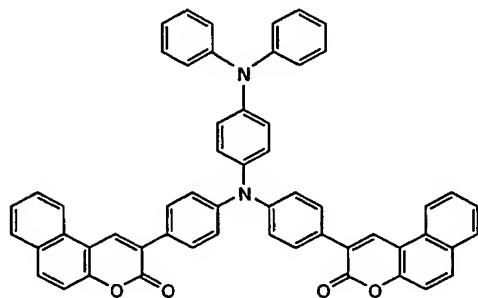


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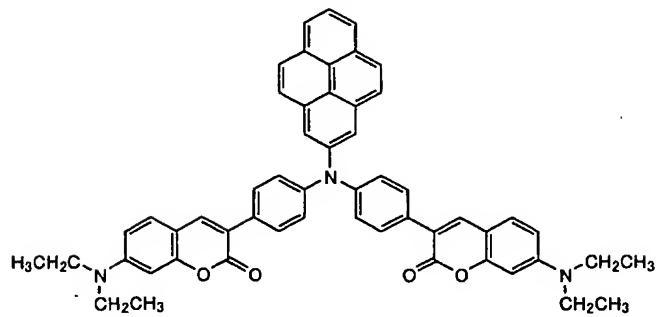
Chemical Formula 4:



Chemical Formula 5:

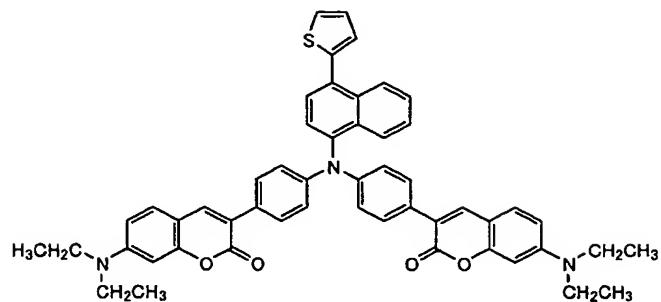


Chemical Formula 6:

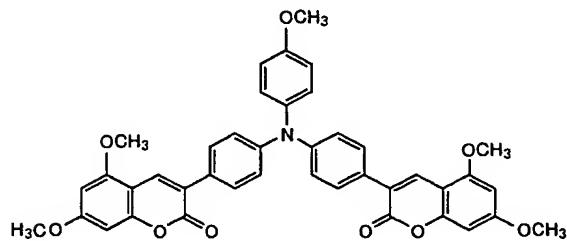


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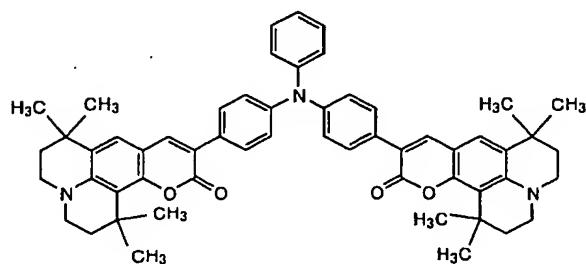
Chemical Formula 7:



Chemical Formula 8:

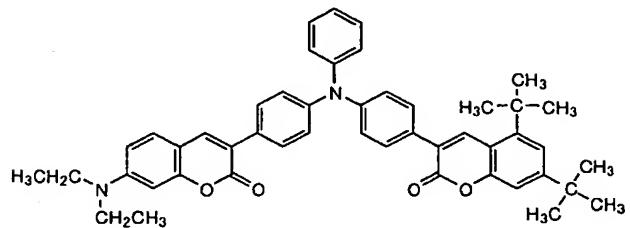


Chemical Formula 9:

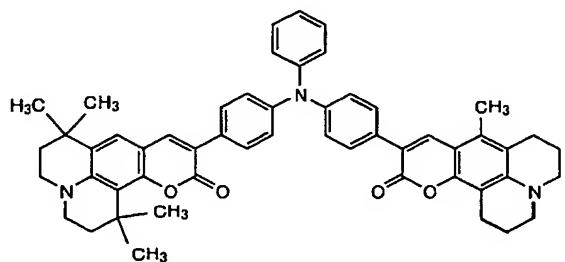


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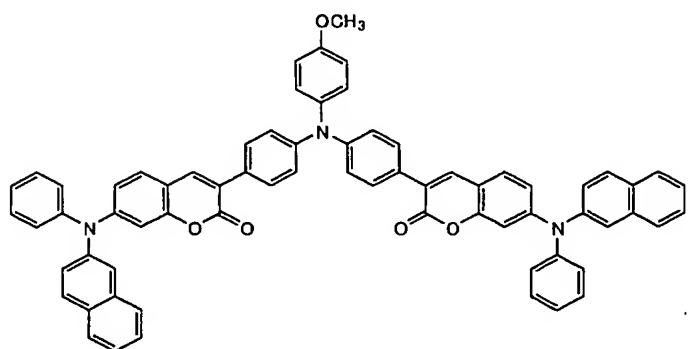
Chemical Formula 10:



Chemical Formula 11:

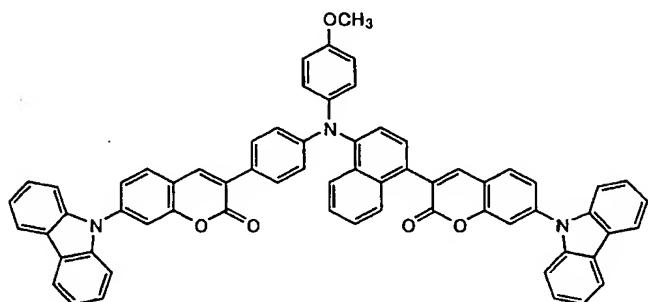


Chemical Formula 12:

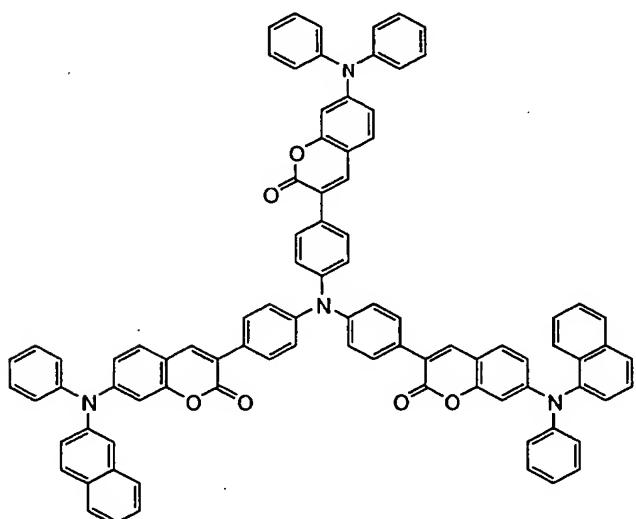


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Chemical Formula 13:

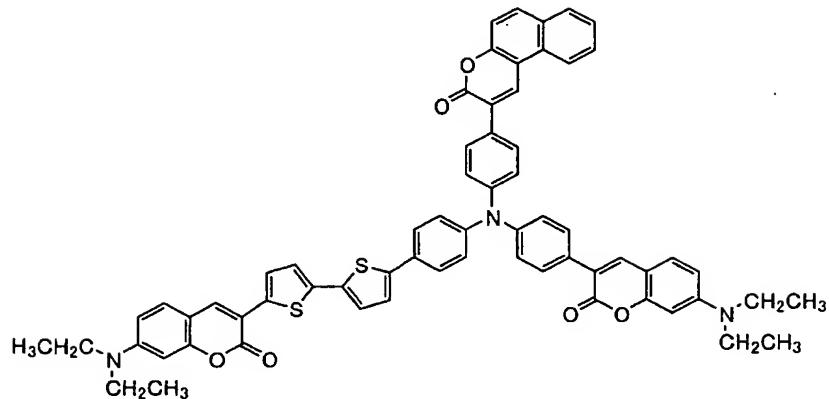


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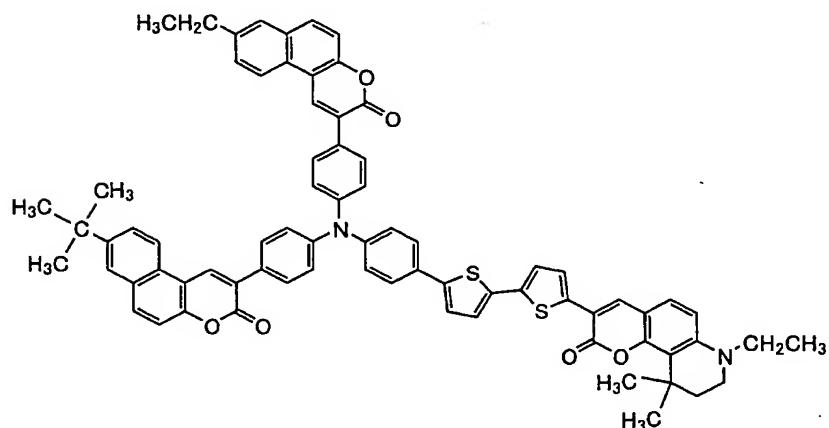


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Chemical Formula 15:

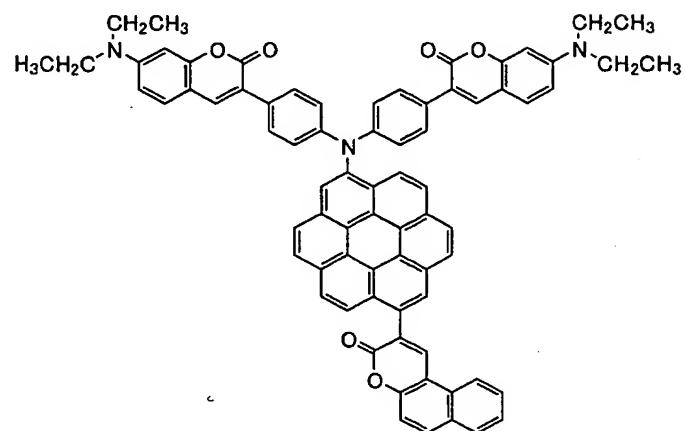


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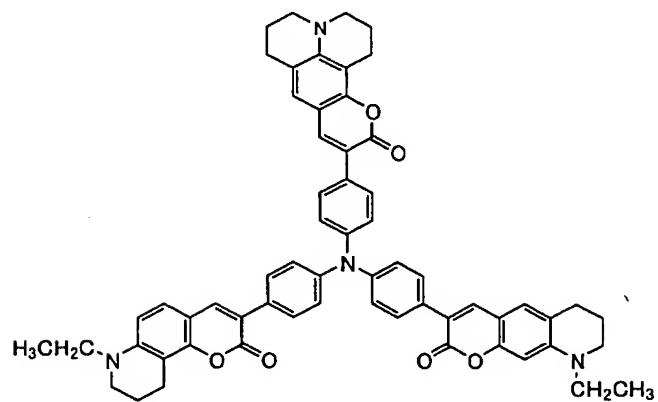


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Chemical Formula 17:

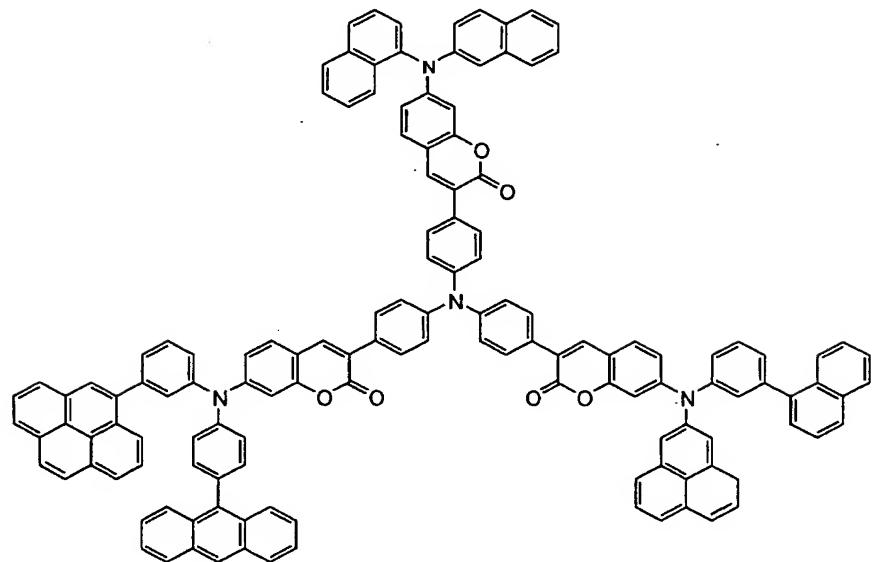


Chemical Formula 18:

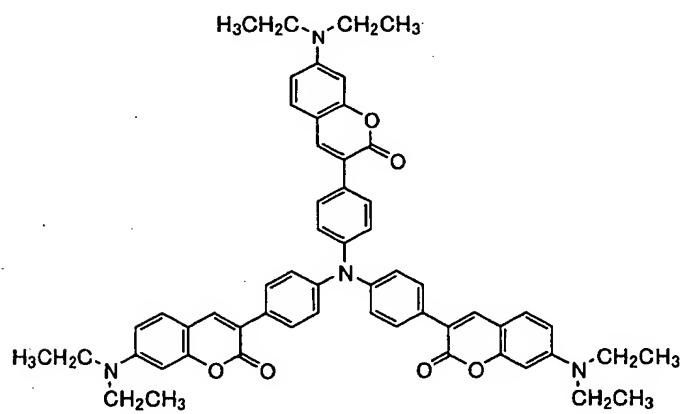


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Chemical Formula 19:

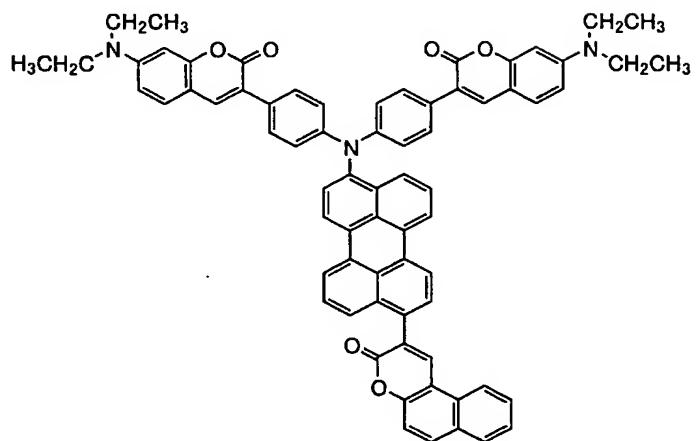


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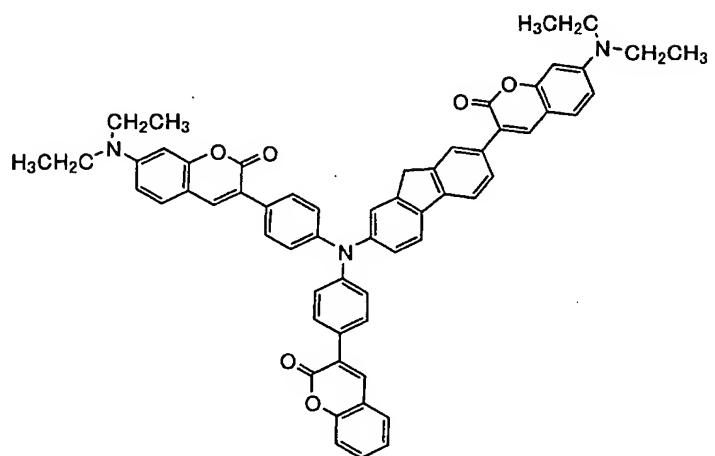


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Chemical Formula 21:

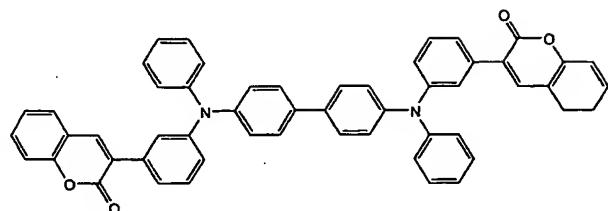


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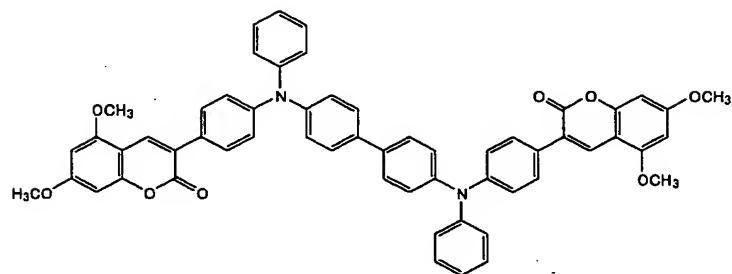


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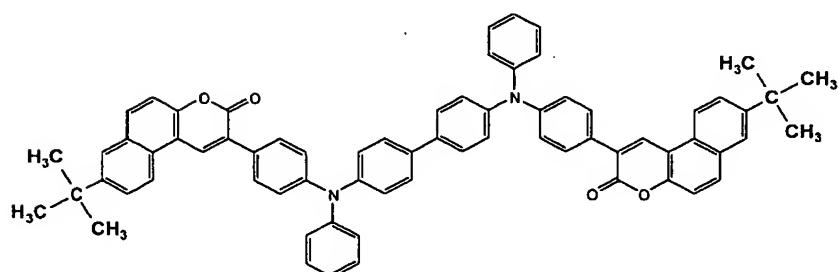
Chemical Formula 23:



Chemical Formula 24:

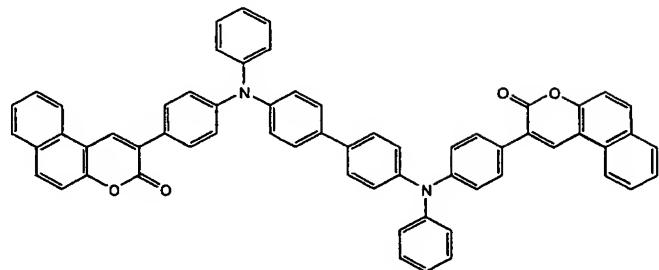


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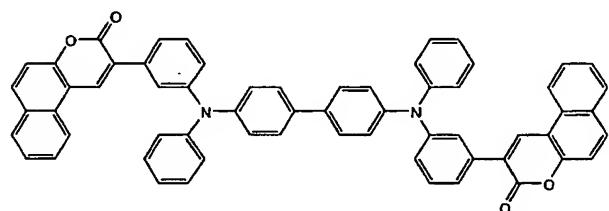


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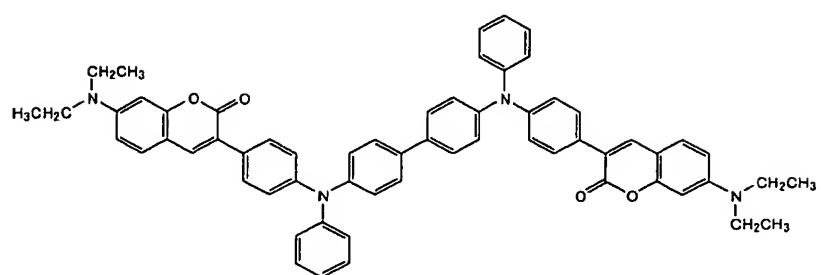
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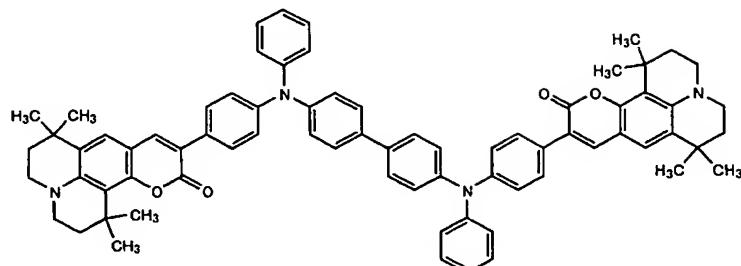


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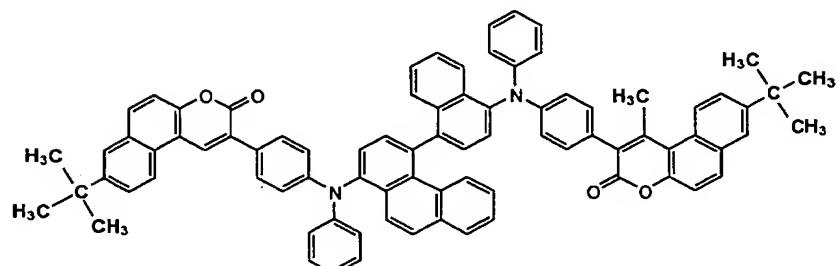


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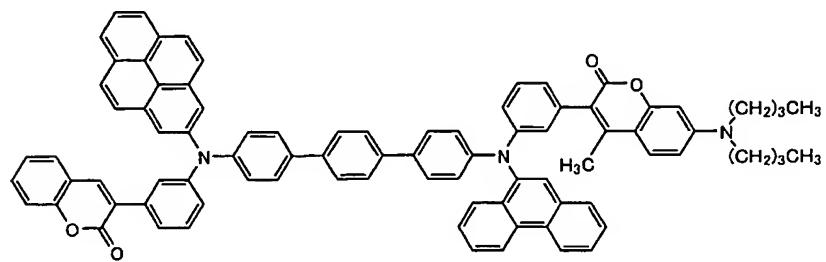
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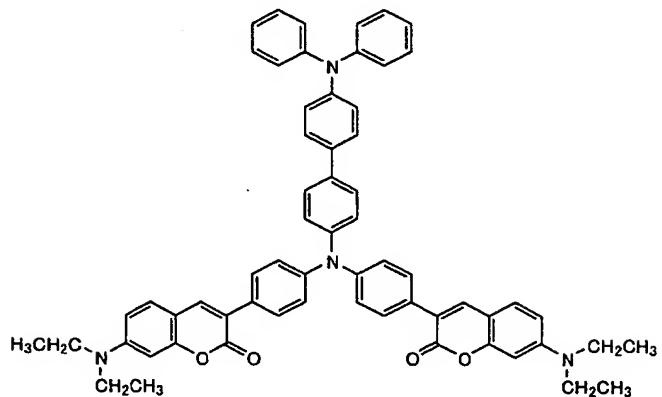


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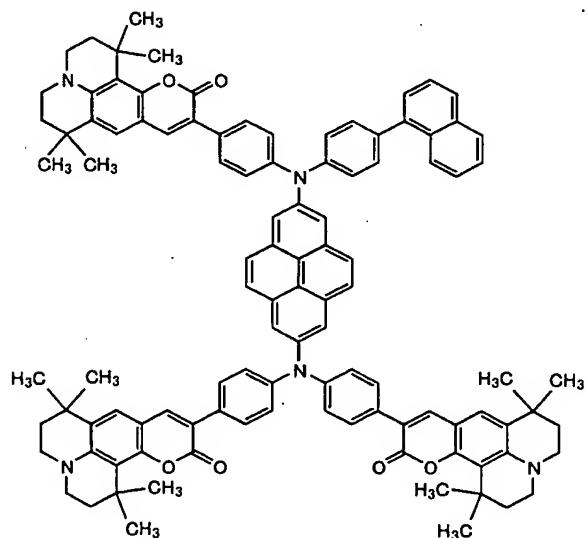


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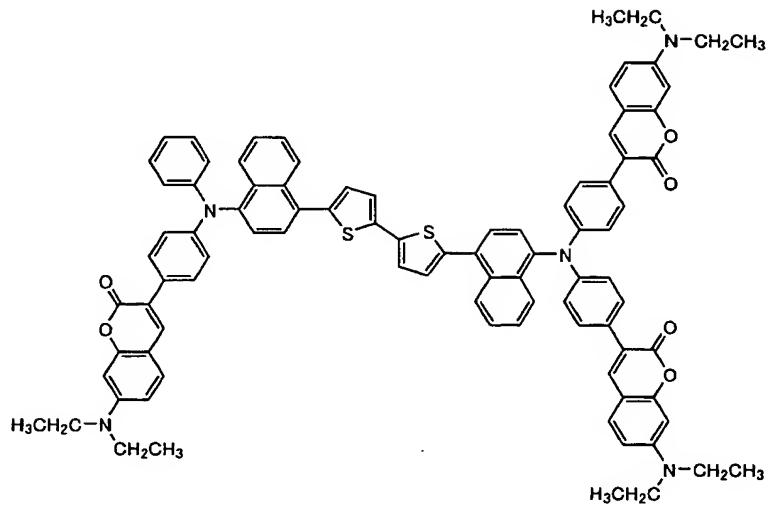


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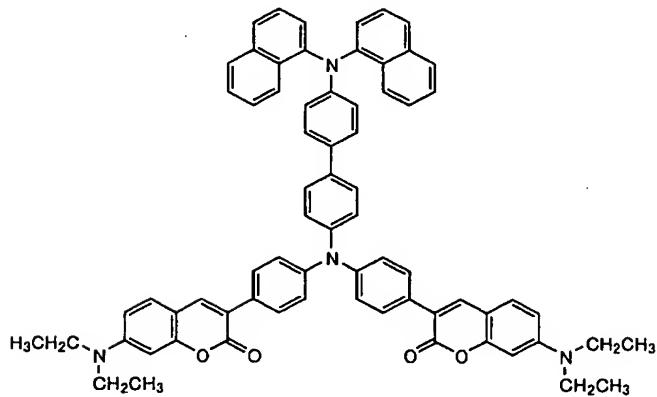


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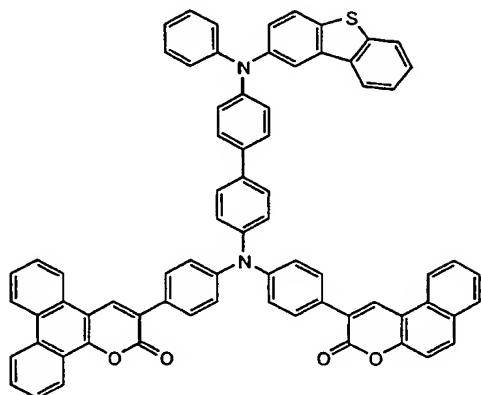


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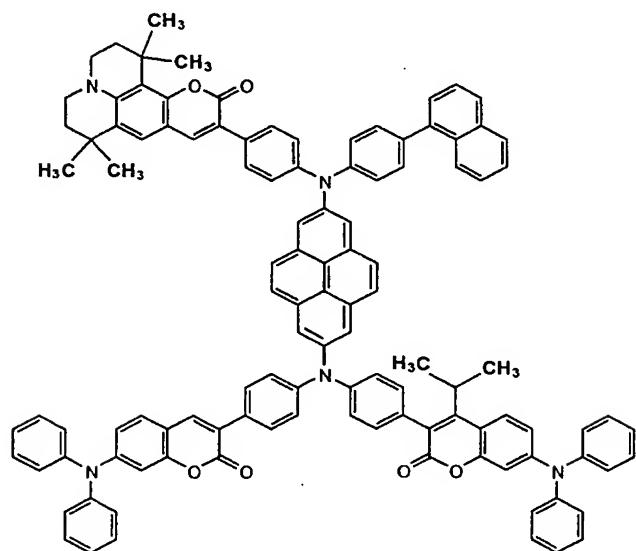


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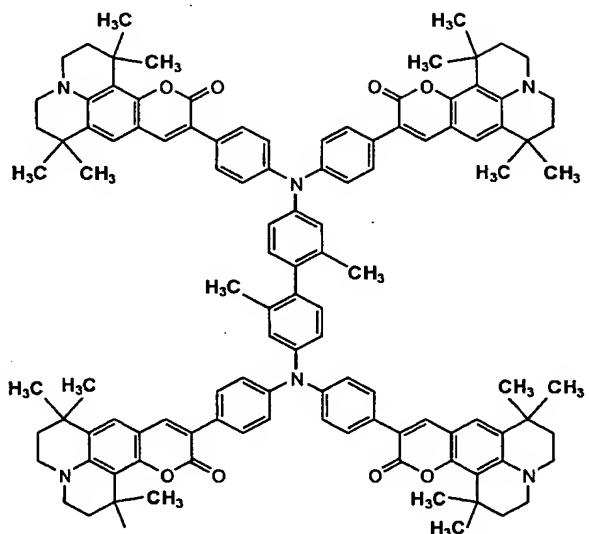


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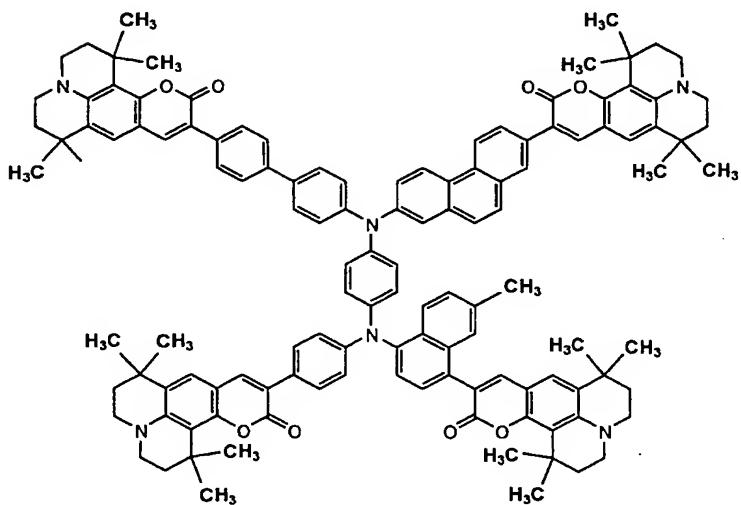


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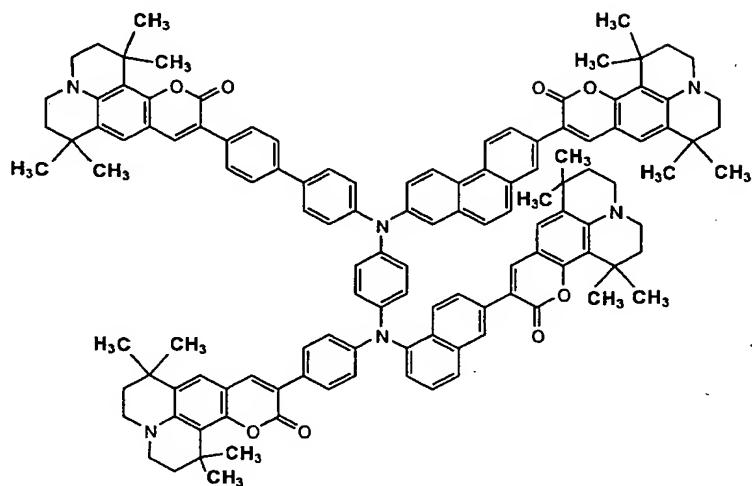


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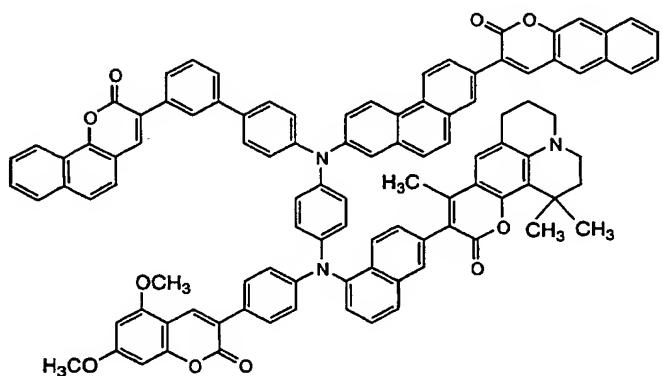


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Chemical Formula 40:

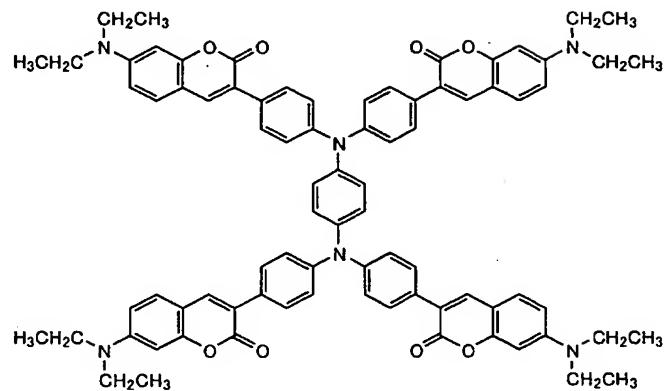


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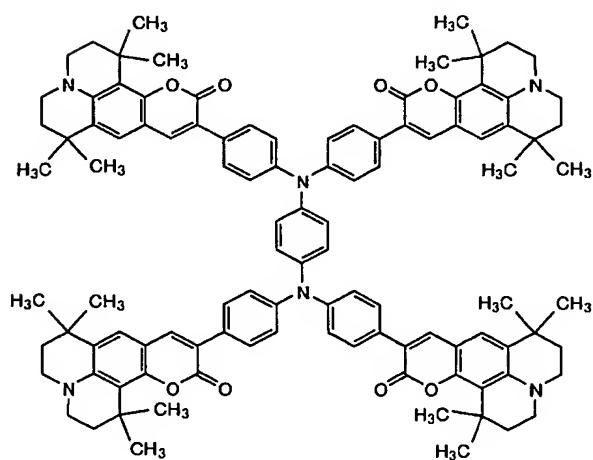


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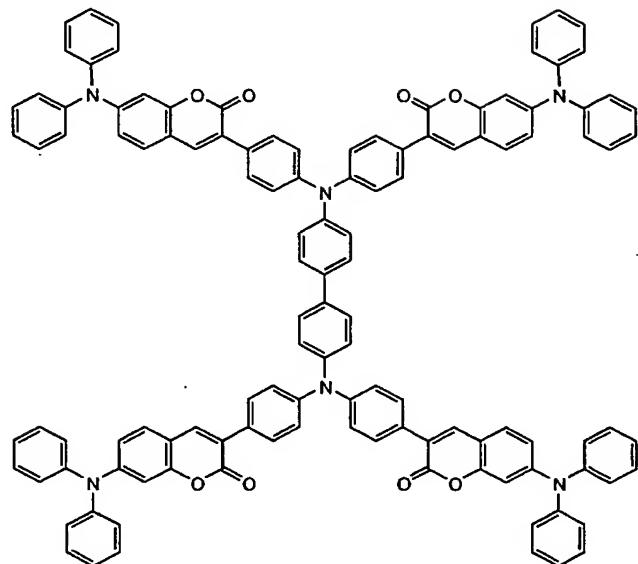
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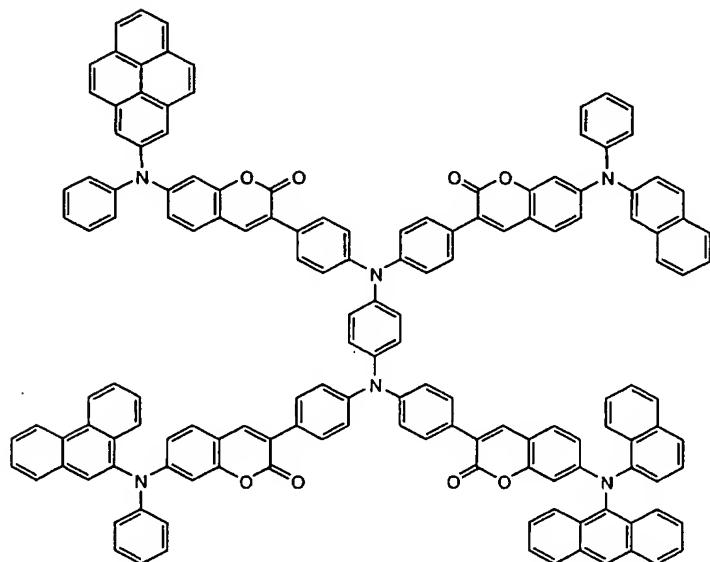
Chemical Formula 43:



Chemical Formula 44:

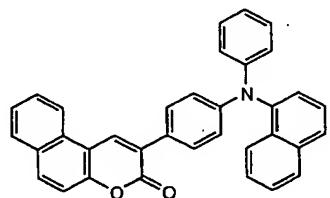


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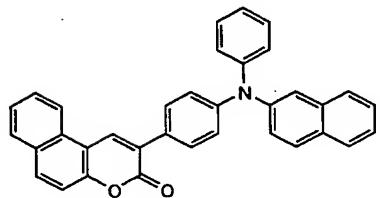


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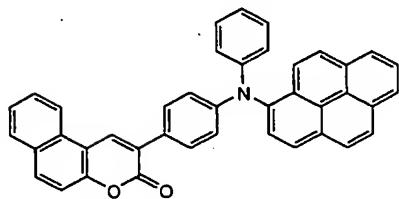
Chemical Formula 46:



Chemical Formula 47:

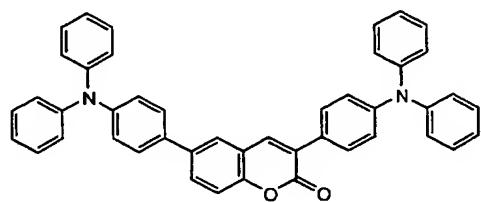


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Chemical Formula 49:



Chemical Formula 50:

